

## CLAIM AMENDMENTS

Please replace the pending claims with the following claim listing:

1. (Currently Amended) An optical medium ~~e~~on~~sists~~ of comprising a cubic crystal material, ~~said optical medium being characterized in that~~ said crystal material [[is]] comprising  $\alpha\beta O_3$ , where  $\alpha$  is at least one of K, Ba, Sr, Ca, and  $\beta$  is at least one of Ta, Ti.
2. (Currently Amended) An optical medium ~~e~~on~~sists~~ of comprising a cubic crystal material, ~~said optical medium being characterized in that~~ said crystal material [[is]] comprises  $KTaO_{3-d}$ , where the amount of oxygen deficiency  $d$  is  $0 \leq d < 10^{-7}$ .
3. (Currently Amended) An optical medium ~~e~~on~~sists~~ of comprising a cubic crystal material, ~~said optical medium being characterized in that~~ said crystal material [[is]] comprises  $KTa_{1-x}Nb_xO_3$ , where composition  $x$  is  $0 \leq x \leq 0.35$ .
4. (Currently Amended) An optical medium ~~e~~on~~sists~~ of comprising a cubic crystal material, ~~said optical medium being characterized in that~~ said crystal material [[is]] comprises  $K_{1-y}Li_yTaO_3$ , where composition  $y$  is  $0 \leq y \leq 0.02$ .
5. (Currently Amended) An optical medium ~~e~~on~~sists~~ of comprising a cubic crystal material, ~~said optical medium being characterized in that~~ said crystal material [[is]] comprises  $K_{1-y}Li_yTa_{1-x}Nb_xO_3$ , where composition  $x$  is  $0 \leq x \leq 0.35$  and  $y$  is  $0 \leq y \leq 0.02$ .

6. (Currently Amended) An optical lens characterized by comprising:  
a cubic crystal material consisting of comprising  $\alpha\beta\text{O}_3$ , where  $\alpha$  is at least one of K, Ba, Sr, Ca, and  $\beta$  is at least one of Ta, Ti; and  
a refractive index of more than 2.2 in the wavelength range of 360nm-800nm, and  
a transmission of 80% or more with a 10mm thickness.

7. (Currently Amended) An optical lens according to Claim 6, wherein said cubic crystal [[is]] comprises  $\text{KTaO}_{3-d}$ , where the amount of oxygen deficiency  $d$  is  $0 \leq d < 10^{-7}$ .

8. (Currently Amended) An optical lens according to Claim 6, wherein said cubic crystal [[is]] comprises  $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ , where composition  $x$  is  $0 \leq x \leq 0.35$ .

9. (Currently Amended) An optical lens according to Claim 6, wherein said cubic crystal [[is]] comprises  $\text{K}_{1-y}\text{Li}_y\text{TaO}_3$ , where composition  $y$  is  $0 \leq y \leq 0.02$ .

10. (Currently Amended) An optical lens according to Claim 6, wherein said cubic crystal [[is]] comprises  $\text{K}_{1-y}\text{Li}_y\text{Ta}_{1-x}\text{Nb}_x\text{O}_3$ , where composition  $x$  is  $0 \leq x \leq 0.35$  and  $y$  is  $0 \leq y \leq 0.02$ .

11. (Currently Amended) An optical prism characterized by comprising:  
a cubic crystal material consisting of comprising  $\alpha\beta\text{O}_3$ , where  $\alpha$  is at least one of K, Ba, Sr, Ca, and  $\beta$  is at least one of Ta, Ti; and  
a refractive index of more than 2.2 in the wavelength range of 360nm-800nm, and  
a transmission deterioration of 1% or less under a 10-minute irradiation with an  
irradiation intensity of  $2.2\text{W/cm}^2$ .
12. (Currently Amended) A prism according to Claim 11, wherein said cubic crystal  
[[is]] comprises  $\text{KTaO}_{3-d}$ , where the amount of oxygen deficiency d is  $0 \leq d < 10^{-7}$ .
13. (Currently Amended) A prism according to Claim 11, wherein said cubic crystal  
[[is]] comprises  $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ , where composition x is  $0 \leq x \leq 0.35$ .
14. (Currently Amended) A prism according to Claim 11, wherein said cubic crystal  
[[is]] comprises  $\text{K}_{1-y}\text{Li}_y\text{TaO}_3$ , where composition y is  $0 \leq y \leq 0.02$ .
15. (Currently Amended) A prism according to Claim 11, wherein said cubic crystal  
[[is]] comprises  $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ , where composition x is  $0 \leq x \leq 0.35$ .